

Barracuda® Green SATA 3Gb/s 2TB Hard Drive

ST32000542AS

Specifications	
Model Number	ST32000542AS
Interface	SATA 3Gb/s
Cache	32MB
Capacity	2TB
Areal density (avg)	341.5Gb/in ²
Guaranteed Sectors	3,907,029,168
PHYSICAL	
Height	26.1mm (1.028 in)
Width	101.85mm (4.010 in)
Length	146.99mm (5.787 in)
Weight (typical)	655g (1.444 lb)
PERFORMANCE	
Spin Speed (RPM)	5900 RPM
Sustained data transfer rate	95Mb/s
Average latency	5.1ms
Random read seek time	16.0ms
Random write seek time	16.0ms
I/O data transfer rate	300MB/s
Unrecoverable read errors	1 in 10 ¹⁴

POWER	
12V start max current	2.0A
Average idle power	4.85W
Average operating power	6.90W
ENVIRONMENT	
Ambient Temperature	
Operating	0°–60°C
Nonoperating	-40°–70°C
Maximum operating temperature change	20°C per hour
Maximum nonoperating temperature change	30°C per hour
Shock	
Operating Shock (max)	70 Gs for 2ms
Nonoperating Shock (max)	300 Gs for 2ms
ACOUSTICS	
Acoustics (Idle Volume)	2.5 bels
Acoustics (Seek Volume)	2.6 bels